RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 0/573,369Source: 1F60Date Processed by STIC: 0/25/2007

ENTERED



DATE: 01/25/2007

IFWO

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PATENT APPLICATION: US/10/573,369
                                                             TIME: 11:59:35
                     Input Set : F:\ARS-126-SEQ LIST.txt
                     Output Set: N:\CRF4\01252007\J573369.raw
      3 <110> APPLICANT: Applied Research Systems ARS Holding N.V.
      5 <120> TITLE OF INVENTION: Novel leader sequences for use in production of proteins
      7 <130> FILE REFERENCE: 884 WO
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/573,369
C--> 9 <141> CURRENT FILING DATE: 2006-03-24
     9 <160> NUMBER OF SEQ ID NOS: 58
     11 <170> SOFTWARE: PatentIn version 3.1
     13 <210> SEQ ID NO: 1
     14 <211> LENGTH: 29
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     20 <223> OTHER INFORMATION: /note="Description of artificial sequence: IgSP-tPA pre-
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     23 <221> NAME/KEY: SIGNAL
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    25 <223> OTHER INFORMATION: murine immunoglobulin signal peptide
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    29 <221> NAME/KEY: PROPEP
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    46 <212> TYPE: PRT
     47 <213> ORGANISM: Homo sapiens
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    55 Ala Val Phe Val Ser Pro Ser Gln Glu Ile His Ala Arg Phe Arg Arg
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    59 Gly Ala Arg
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    63 <210> SEQ ID NO: 3
    64 <211> LENGTH: 19
    65 <212> TYPE: PRT
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66 <213> ORGANISM: Mus musculus

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Input Set : F:\ARS-126-SEQ LIST.txt Output Set: N:\CRF4\01252007\J573369.raw 69 <221> NAME/KEY: SIGNAL 70 <222> LOCATION: (1)..(19) 71 <223> OTHER INFORMATION: W --> 73 < 400 > 375 Met Lys Cys Ser Trp Val Ile Phe Phe Leu Met Ala Val Val Thr Gly 76 1 5 10 79 Val Asn Ser 83 <210> SEQ ID NO: 4 84 <211> LENGTH: 26 85 <212> TYPE: PRT 86 <213> ORGANISM: Homo sapiens 88 <220> FEATURE: 89 <221> NAME/KEY: SIGNAL 90 <222> LOCATION: (1)..(26) 91 <223> OTHER INFORMATION: W--> 93 < 400 > 495 Met Ala Thr Gly Ser Arg Thr Ser Leu Leu Leu Ala Phe Gly Leu Leu 10 99 Cys Leu Pro Trp Leu Gln Glu Gly Ser Ala 100 20 103 <210> SEQ ID NO: 5 104 <211> LENGTH: 17 105 <212> TYPE: PRT 106 <213> ORGANISM: Homo sapiens 108 <220> FEATURE: 109 <221> NAME/KEY: SIGNAL 110 <222> LOCATION: (1)..(17) 111 <223> OTHER INFORMATION: W--> 113 <400> 5 115 Met Leu Leu Leu Leu Leu Leu Gly Leu Arg Leu Gln Leu Ser Leu 116 1 10 119 Gly 123 <210> SEQ ID NO: 6 124 <211> LENGTH: 87 125 <212> TYPE: DNA 126 <213 > ORGANISM: Artificial 128 <220> FEATURE: 129 <221> NAME/KEY: source 130 <223> OTHER INFORMATION: /note="Description of artificial sequence: nucleic acid encoding IgSP-tPA pre-propeptide" 132 <400> SEQUENCE: 6 133 atgaagtgca gctgggtgat cttcttcctg atggccgtgg tgaccggcgt gaattccagc 60 135 caggagatcc acgccaggtt ccgcaga 87 138 <210> SEO ID NO: 7 139 <211> LENGTH: 105 140 <212> TYPE: DNA 141 <213> ORGANISM: Homo sapiens 143 <400> SEQUENCE: 7 144 atggacgcca tgaagcgcgg cetgtgctgc gtgctgctgc tgtgcqqcqc cgtqttcqtg 60 146 agccccagcc aggagatcca cgccaggttc cgcagaggcg ccaga 105

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Input Set : F:\ARS-126-SEQ LIST.txt
Output Set: N:\CRF4\01252007\J573369.raw

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90

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Input Set : F:\ARS-126-SEQ LIST.txt
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240 Asp Glu Trp Arg Ser Thr His Glu Ala Tyr Val Thr Val Leu Glu Gly 105 244 Phe Ser Gly Asn Thr Thr Leu Phe Ser Cys Ser His Asn Phe Trp Leu 245 115 120 248 Ala Ile Asp Met Ser Phe Glu Pro Pro Glu Phe Glu Ile Val Gly Phe 130 135 252 Thr Asn His Ile Asn Val Met Val Lys Phe Pro Ser Ile Val Glu Glu 155 256 Glu Leu Gln Phe Asp Leu Ser Leu Val Ile Glu Glu Gln Ser Glu Gly 165 170 260 Ile Val Lys Lys His Lys Pro Glu Ile Lys Gly Asn Met Ser Gly Asn 180 185 264 Phe Thr Tyr Ile Ile Asp Lys Leu Ile Pro Asn Thr Asn Tyr Cys Val 195 200 268 Ser Val Tyr Leu Glu His Ser Asp Glu Gln Ala Val Ile Lys Ser Pro 215 272 Leu Lys Cys Thr Leu Leu Pro Pro Gly Gln Glu Ser Glu Phe Ser 273 225 230 276 <210> SEQ ID NO: 11 277 <211> LENGTH: 34 278 <212> TYPE: DNA 279 <213> ORGANISM: Artificial 281 <220> FEATURE: 282 <221> NAME/KEY: source 283 <223> OTHER INFORMATION: /note="Description of artificial sequence: primer" 285 <400> SEQUENCE: 11 286 tgctctagag cgtcacccct agagtcgagc tgtg 34 289 <210> SEQ ID NO: 12 290 <211> LENGTH: 59 291 <212> TYPE: DNA 292 <213> ORGANISM: Artificial 294 <220> FEATURE: 295 <221> NAME/KEY: source 296 <223> OTHER INFORMATION: /note="Description of artificial sequence: primer" 298 <400> SEQUENCE: 12 299 ggcgttgagc ggccgcggtt catgacgcta gcaccgaatt cacccctgta accactgcc 59 302 <210> SEQ ID NO: 13 303 <211> LENGTH: 51 304 <212> TYPE: DNA 305 <213> ORGANISM: Artificial 307 <220> FEATURE: 308 <221> NAME/KEY: source 309 <223> OTHER INFORMATION: /note="Description of artificial sequence: primer" 311 <400> SEQUENCE: 13 312 egeagatetg gtetegeatg aagtgeaget gggtgatett etteetgatg g 51 315 <210> SEQ ID NO: 14 . 316 <211> LENGTH: 43 317 <212> TYPE: DNA 318 <213> ORGANISM: Artificial

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Input Set : F:\ARS-126-SEQ LIST.txt
Output Set: N:\CRF4\01252007\J573369.raw

320 <220> FEATURE: 321 <221> NAME/KEY: source 322 <223> OTHER INFORMATION: /note="Description of artificial sequence: primer" 324 <400> SEQUENCE: 14 325 ccgtggtgac cggcgtgaat tccgacagcg tgtgccctca ggg 328 <210> SEQ ID NO: 15 329 <211> LENGTH: 52 330 <212> TYPE: DNA 331 <213> ORGANISM: Artificial 333 <220> FEATURE: 334 <221> NAME/KEY: source 335 <223> OTHER INFORMATION: /note="Description of artificial sequence: primer" 337 <400> SEQUENCE: 15 338 caagtacatc caccctcaga acaacagcat ctgctgcacc aagtgccaca ag 52 341 <210> SEQ ID NO: 16 342 <211> LENGTH: 26 343 <212> TYPE: DNA 344 <213> ORGANISM: Artificial 346 <220> FEATURE: 347 <221> NAME/KEY: source 348 <223> OTHER INFORMATION: /note="Description of artificial sequence: primer" 350 <400> SEQUENCE: 16 351 ggcacctacc tgtacaacga ctgccc 26 354 <210> SEQ ID NO: 17 355 <211> LENGTH: 51 356 <212> TYPE: DNA 357 <213> ORGANISM: Artificial 359 <220> FEATURE: 360 <221> NAME/KEY: source 361 <223> OTHER INFORMATION: /note="Description of artificial sequence: primer" 363 <400> SEQUENCE: 17 51 364 gggcagtcgt tgtacaggta ggtgcccttg tggcacttgg tgcagcagat g 367 <210> SEQ ID NO: 18 368 <211> LENGTH: 48 369 <212> TYPE: DNA 370 <213> ORGANISM: Artificial 372 <220> FEATURE: 373 <221> NAME/KEY: source 374 <223> OTHER INFORMATION: /note="Description of artificial sequence: primer" 376 <400> SEQUENCE: 18 377 ctgttgttct gagggtggat gtacttgccc tgagggcaca cgctgtcg 48 380 <210> SEQ ID NO: 19 381 <211> LENGTH: 48 382 <212> TYPE: DNA 383 <213> ORGANISM: Artificial 385 <220> FEATURE: 386 <221> NAME/KEY: source 387 <223> OTHER INFORMATION: /note="Description of artificial sequence: primer"

389 <400> SEQUENCE: 19

RAW SEQUENCE LISTING ERROR SUMMARY
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Input Set : F:\ARS-126-SEQ LIST.txt
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Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:6; Line(s) 130

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,6,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33 Seq#:34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,51,52,53,54,55,56,57,58 VERIFICATION SUMMARY

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PATENT APPLICATION: US/10/573,369

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Input Set : F:\ARS-126-SEQ LIST.txt
Output Set: N:\CRF4\01252007\J573369.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:73 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:3,Line#:71
L:93 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:4,Line#:91
L:113 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:5,Line#:111